

# ABSTRACT OF THE DISCLOSURE

5 The present invention provides a two VCSEL array  
mounted in a single can with a monitoring diode. One  
VCSEL is directed toward the can window (for coupling  
with an attached fiber optic in a completed subassembly)  
and the other is directed toward the monitor diode. The  
two VCSELS are electrically coupled in parallel, are  
connected to the same pins in the TO can, and are driven  
by the same source. Preferably the two VCSELS are  
identical or nearly identical. The current of the  
monitor diode is proportional to the light emitted by  
both VCSELS. Since the monitor diode measures incident  
light from the second VCSEL, no angle of reflection is  
affected by changes in temperature. Since the two VCSELS  
are coupled in parallel, the device has a naturally low  
impedance.